SIEMENS

Network ID Camera

SP

Configuration

NIC2-2 Guidelines Communication

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General

This document describes the rules which have to be considered when a Triacon Network ID Camera is to be connected to a patient booking system, normally a RIS system (Radiology Information System).

Important

Triacon Network ID Camera does not support any standard protocol like DICOM or HL7. This means that all adoptions between a patient data system and a ID camera are specific for each installation.

Therefore - Vendors and Sales Representatives of the Mammomat system must make sure that some conditions are included in the Mammomat sales contract, to be able to promise the customers that they can connect a Triacon Network ID Camera to a patient booking system of a Hospital or Radiology ward.

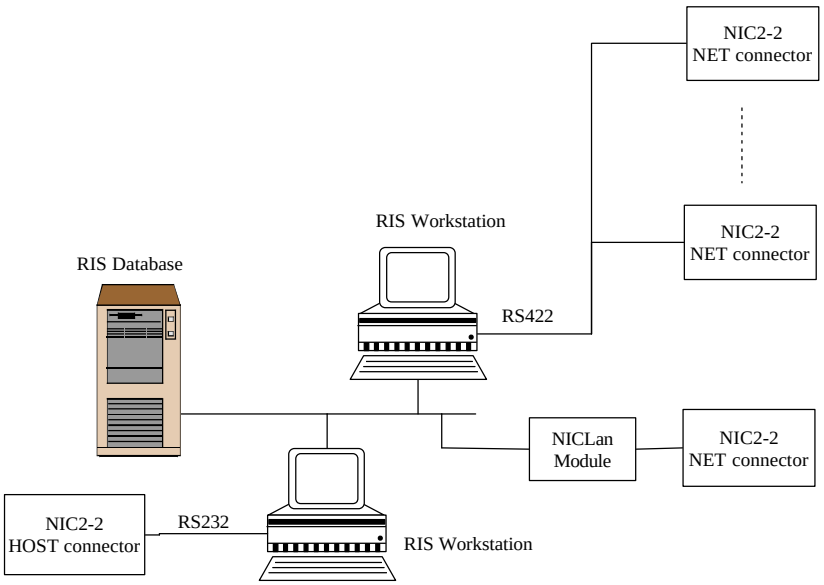
Requirements

The Triacon Network ID Camera can receive patient data in its own data format. It is recommended to distribute the following information to the customer / RIS vendor as soon as the topic comes up. If the RIS system does not support Triacon's protocol, an adoption must be made. If adoptions have to be made, it is important that the customer is properly informed before any actions are made, this in order to start an evaluation whether an adoption is possible or not, and to get a price on such project.

Below follows a description of the requirements from the Triacon Network ID Camera side.

Physical Connection

The ID Camera is equipped with three different interfaces, which is intended for downloading of patient data. One is a RS232-interface, one is a RS422-interface and as an option a TCP/IP-interface is available.



The RS232 interface

If a workstation (e.g. RIS terminal) is located near the ID Camera a RS232 interface normally is used. This interface supports only 'point-to-point' communication (one ID Camera is connected to the workstation).

The RS422 interface

If more than one ID Camera are to be connected to one workstation, or the distance between the workstation and the ID Camera is greater than 10 meters, the RS422 interface should be used.

TCP/IP interface

NIC2-2 can be equipped with a TCP/IP interface via a NICLan Module. This option allows the user to connect the ID Camera directly to their local network (LAN).

Communication Protocol

Regardless of selected interface above a communication protocol has to be established between the RIS system and the ID Camera. It is recommended to make all modifications at the RIS system side because in most situations it must be modified anyway, i.e. create a pushbutton for starting a download of patient data or generating a download command when a given state is met.

The ID Camera has two types of protocols, Direct- and Download Protocol.

Direct Protocol

When a given status of an examine is set in the RIS system, e.g. examine start, patient data of selected patient is sent and displayed on the ID Camera. Patient data on the display of the ID Camera will be unchanged until new data is sent from the RIS system.

Download Protocol

When a command 'Download' is activated in the RIS system, e.g. by pressing a pushbutton on the screen, a predefined number of patient data is transferred to the ID Camera, e.g. all patients for current day. These data is stored in an internal booking list in the ID Camera from which patient data later can be selected by the operator. The Triacon Network ID Camera can hold up to 250 patient records.

Exposure data

A connected NICLan Module allows exposure data, received from a connected generator, to be stored in the NICLan Module. These data can be fetched at any time by the RIS system.

References

- Network Installation Manual NIC2-2, Publ. No. 201100
- NICLan Installation Manual, Publ. No. 20061100
- NICLan TCP/IP FTP communication, Publ. No. 20062114-1v5